

One of the most remarkable recent occurrences in mathematics is the refounding, on a rigorous basis, of the idea of infinitesimal quantity, a notion which played an important role in the early development of the calculus and mathematical analysis. In this new edition basic calculus, together with some of its applications to simple physical problems, are presented through the use of a straightforward, rigorous, axiomatically formulated concept of zero-square, or nilpotent infinitesimal - that is, a quantity so small that its square and all higher powers can be set, literally, to zero. The systematic employment of these infinitesimals reduces the differential calculus to simple algebra and, at the same time, restores to use the "infinitesimal" methods figuring in traditional applications of the calculus to physical problems - a number of which are discussed in this book. This edition also contains an expanded historical and philosophical introduction.

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A Primer of Infinitesimal Analysis. Cambridge: Cambridge University Press, , cloth? ISBN: 0 0. J. P. Mayberry. School of Mathematics.

Nevertheless, as we shall see, this potential existence will suffice for the development of 'infinitesimal' analysis in smooth worlds. and Just as. A Primer of Infinitesimal Analysis has 13 ratings and 3 reviews. Mistermarko said: This book is a revelation. The main premise is that at around the begi. A Primer of Infinitesimal Analysis. JL Bell, The British Journal for the Philosophy of Science, Volume 51, Issue 2, 1 June , Pages One of the most remarkable recent occurrences in mathematics is the re-founding , on a rigorous basis, the idea of infinitesimal quantity, a notion which played.

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